Index of Claims

| Application No.         | Applicant(s) |  |
|-------------------------|--------------|--|
| 10/003,916              | ITO ET AL.   |  |
| Examiner                | Art Unit     |  |
| Kallambella Vijayakumar | 1751         |  |

| √ | Rejected | _ | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla           | aim      | Date   |          |          |  |          |              |          |          | Cla       | Claim Date |       |           |              |         |                |                     |              |                         |         | Claim Date |       |       |            |               |          |          |          |          |          |           |                   |          |
|---------------|----------|--|----------|----------|--|----------|--------------|----------|----------|-----------|------------|-------|-----------|--------------|---------|----------------|---------------------|--------------|-------------------------|---------|------------|-------|-------|------------|---------------|----------|----------|----------|----------|----------|-----------|-------------------|----------|
| _             | <u>-</u> | 4  |          | 4        |  |          |              |          |          |           |            |       | <u>-a</u> |              |         |                |                     | T            |                         |         |            |       |       |            |               | T        |          |          |          |          |           | $\Box$            |          |
| Final         | Original | 1/14/04  | 8/6/04   | 12/22/04 | Н  |          |              |          | .        |           |            | Final | Original  | İ            |         |                |                     |              | - [                     |         |            |       | Final | Original   |               | -        |          |          |          |          |           |                   |          |
| i             | ٦        | \$   | 88       | 12       |  |          |              | l        | - 1      |           |            | ΙĒ    | Ä         |              | - 1     |                |                     |              | - {                     |         |            |       | 這     | )<br>Ziç   |               | -        |          |          | -        |          |           |                   |          |
|               |          | L  | Ļ        |          | $\sqcup$   | _        |              |          |          |           |            |       | lI        | _            | $\perp$ | ┸              | Ш                   | _            | 4                       |         | _          |       |       |            |               |          | _        | _        |          |          |           |                   |          |
|               | 1        | 1  | 1        | 1        | ⊢⊢   |          |              |          | 4        |           |            |       | 51        | _            | _       | ļ              | $\sqcup$            | _            | 4                       | _       | _          |       |       | 101        |               | _        | _        | _        | _        |          | $\dashv$  |                   | _        |
|               | 2        | √  | 1        | 4        | $\vdash$   | $\dashv$ | 4            |          |          |           |            |       | 52        | _            | -       | ┼              | Ш                   | $\downarrow$ | 4                       | _       | 4          |       |       | 102        | _             | 4        | _        | _        | _        |          | 4         | $\dashv$          | _        |
|               | 3        | N  | _        | _        | $\vdash$   | -        |              |          |          |           |            |       | 53        | -+-          | $\perp$ | +-             | $\vdash$            | _            | 4                       | -       | 4          |       |       | 103        |               | $\perp$  | _        | _        | _        |          | _         | _                 | _        |
|               | 4        | N  | $\vdash$ | .7       | $\vdash$   | -        | -            |          |          |           |            |       | 54        | $\dashv$     |         | -              | Н                   | $\dashv$     | -                       | _       | 4          |       |       | 104        |               | -        | 4        | $\dashv$ | _        |          | $\dashv$  | $\dashv$          | _        |
|               | 5<br>6   | -  | -        | 7        | $\vdash$   | -        |              | -+       |          |           |            |       | 55        | -            |         | ╁              | 1-1                 | -            | +                       |         | 4          |       |       | 105        | $\rightarrow$ | 4        | 4        | _        | _        |          |           |                   |          |
|               | 7        |  |          | ×        | $\vdash$   | $\dashv$ | $\dashv$     | $\dashv$ | -        |           |            |       | 56        | +            |         | +-             | Н                   | +            | +                       | +       |            |       |       | 106        |               | -        | 4        |          | -        | $\vdash$ | $\dashv$  | $\dashv$          | 4        |
|               | 8        | -  | -        |          | $\vdash$   | $\dashv$ | $\dashv$     | -        | -        | _         |            |       | 57<br>58  | $\dashv$     |         | +              | Н                   | -+           | -                       | +       | -          |       |       | 107        | $\dashv$      | +        | +        | $\dashv$ |          |          | -         | $\dashv$          | $\dashv$ |
| $\vdash$      | 9        | ┢  | -        | -        | $\vdash$   | $\dashv$ |              | -+       | -        | _         |            |       | 59        | -+           | +       | -              | -                   | -            | +                       | +       | -          | ŀ     |       | 108        | -             | +        | _        |          | -        |          | -         | $\dashv$          | $\dashv$ |
|               | 10       | -  |          |          | 1  | +        |              | -        | $\dashv$ | -         |            |       | 60        | -            | +       | +-             |                     | +            | +                       | +       | -          |       |       | 109        | -             | -+       | _        | $\dashv$ | $\dashv$ | -        | $\dashv$  | $\dashv$          | $\dashv$ |
| $\vdash$      | 11       | $\vdash$   | $\vdash$ | _        | $\vdash$   | +        | -            | $\dashv$ | $\dashv$ | -         |            |       | 61        | +            | +       | ╁              | H                   | $\dashv$     | +                       | +       | -          |       |       | 110<br>111 | $\dashv$      | $\dashv$ |          |          |          |          | -         | $\dashv$          | $\dashv$ |
|               | 12       | -  | $\vdash$ |          | $\vdash$   | $\dashv$ | -            | +        | $\dashv$ | $\dashv$  |            |       | 62        | +            | +       | ╁              | $\vdash$            | +            | +                       | +       | -          | ŀ     |       | 112        | $\dashv$      | +        | -        | $\dashv$ |          | $\vdash$ | -         | $\dashv$          |          |
|               | 13       | $\vdash$   |          |          | $\vdash$   | $\dashv$ | -            | -+       | $\dashv$ | -         |            |       | 63        | +            | +       | +-             | $\vdash$            | $\dashv$     | +                       | +       | -          | •     |       | 113        | $\dashv$      | +        | -        | $\dashv$ | -        | -        | -         | +                 |          |
|               | 14       | <del>                                     </del> | H        |          |  | 十        | $\dashv$     | 一        | $\dashv$ | -         |            |       | 64        | +            | +       | +-             | $\vdash$            | $\dashv$     | +                       | +       | $\dashv$   |       |       | 114        | +             | +        |          | -+       |          | -        | $\dashv$  | $\dashv$          |          |
|               | 15       |  | $\vdash$ | _        | 1  | 寸        | 7            | -        | -        | -         |            |       | 65        | +            | +-      | +-             | $\vdash$            | $\dashv$     | +                       | +       | $\dashv$   |       |       | 115        | $\dashv$      | +        | $\dashv$ |          |          | $\dashv$ | $\dashv$  | +                 | $\dashv$ |
|               | 16       | <b> </b>   |          |          | $\vdash$   | $\dashv$ | <del>-</del> | -        | $\dashv$ | $\exists$ |            |       | 66        | +            | +       | +-             | ╁┼┼                 | $\dashv$     | +                       | +-      | -          |       |       | 116        | $\dashv$      | +        | $\dashv$ | -        | -        | $\vdash$ | +         | $\dashv$          | $\dashv$ |
|               | 17       |  | Н        |          | $\vdash$   | $\dashv$ | -            |          | 1        |           |            |       | 67        | +            | +       | +-             | H                   | $\dashv$     | +                       | +       | $\dashv$   |       |       | 117        | $\dashv$      | +        | $\dashv$ | ┪        | $\dashv$ | $\dashv$ | $\dashv$  | -+                | $\dashv$ |
|               | 18       | -  |          |          | <del>                                     </del> | +        |              | _        | 十        | $\neg$    |            |       | 68        | $\dashv$     | $\top$  | +              | $\vdash$            | +            | ╁                       | +       | 1          | H     |       | 118        | $\dashv$      | ┰        | ┪        | $\dashv$ | $\dashv$ | $\dashv$ | +         | -+                | $\dashv$ |
|               | 19       |  |          |          | $\vdash$   | 1        | ┪            | $\neg$   | 一        | _         |            |       | 69        | $\dashv$     | $\top$  | ${}^{\dagger}$ | $\vdash$            | -            | +                       | +       | ۲.         | iii t |       | 119        | +             | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$          | $\dashv$ |
|               | 20       |  |          |          | $\vdash$   | 7        | _            |          | T        |           |            |       | 70        | o            | +       | +-             |                     | $\dashv$     | $^{+}$                  | ┰       | +          | H     |       | 120        | $\dashv$      | +        | $\dashv$ |          | -        | $\dashv$ | $\dashv$  | $\dashv$          | $\dashv$ |
|               | 21       |  |          |          |  | _        | _            | 寸        | 1        |           |            |       | 71        | $\top$       | _       | +              | H                   | +            | $\dashv$                | ╅       | 1          |       |       | 121        | $\dashv$      | +        | ᅥ        | $\dashv$ | $\dashv$ | $\dashv$ | +         | $\dashv$          | $\dashv$ |
|               | 22       |  |          | _        |  | 7        | 7            | T        | 7        |           |            |       | 72        |              | $\top$  | +              | H                   | +            | +                       | +       | 1          |       |       | 122        | $\dashv$      |          | -        | +        | $\dashv$ | -        |           | $\dashv$          | $\dashv$ |
|               | 23       |  |          |          |  | 1        |              |          | 寸        | 7         |            |       | 73        | _            | $\top$  | T              |                     | 7            | 1                       | +       | ٦.         |       |       | 123        | $\dashv$      | +        | $\dashv$ | 7        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$          | $\dashv$ |
|               | 24       | -  |          |          | $\Box$   | Ť        |              | $\neg$   | 寸        | $\neg$    |            |       | 74        | $\dashv$     |         | +-             | $\vdash$            | _            | $\dashv$                | +       | 7          |       |       | 124        | $\dashv$      | +        | $\dashv$ | <b>-</b> | -        | -        | +         | $\dashv$          | $\dashv$ |
|               | 25       |  |          |          |  | T        |              |          | T        |           |            |       | 75        | $\top$       | $\top$  | $\top$         | П                   | $\top$       | +                       | 1       | 7          |       |       | 125        | $\neg$        | $\top$   | ┪        | `        | $\neg$   |          | $\dashv$  | 寸                 | $\dashv$ |
|               | 26       |  |          |          |  |          | 寸            | $\neg$   | T        |           |            | -     | 76        | $\top$       | $\top$  | $\top$         |                     | $\top$       | +                       | +       | 7          |       |       | 126        | $\dashv$      | $\top$   | ┪        |          | ᅦ        |          | $\dashv$  | 十                 | ᅱ        |
|               | 27       |  |          |          |  |          | 寸            |          |          |           |            |       | 77        | $\top$       | $\top$  | $\top$         |                     | $\top$       | T                       |         | ٦          |       |       | 127        | _             | $\top$   | $\dashv$ |          | _        | _        |           | 十                 | ᅱ        |
|               | 28       |  |          |          | П  | T        |              |          |          |           |            |       | 78        | $\neg$       |         | $\top$         |                     |              | T                       | $\neg$  | 7          |       | _     | 128        | $\neg$        | $\top$   | $\dashv$ | T        | $\neg$   | $\neg$   | $\dashv$  | 寸                 | $\neg$   |
|               | 29       |  |          |          | П  | $\neg$   | T            | ı        |          |           |            |       | 79        | $\neg$       |         | T              | П                   |              | T                       | 1       | 7          |       |       | 129        | _             | +        | ┪        |          | 一        | $\neg$   | 1         | ヿ                 | ┪        |
|               | 30       |  |          |          |  | П        | ヿ            |          | ヿ        |           |            |       | 80        |              |         |                |                     |              | T                       |         | 7          |       |       | 130        | $\neg$        | $\top$   | 7        |          | ヿ        |          | $\exists$ | ヿ                 | ╗        |
|               | 31       |  |          |          |  | Т        |              |          | $\neg$   |           |            |       | 81        |              |         |                |                     |              | T                       |         | ٦          | -     |       | 131        |               | $\top$   | ╛        | T        | _        | $\neg$   |           | 1                 | ┪        |
|               | 32       |  |          |          |  |          |              |          |          |           |            |       | 82        |              |         |                |                     | T            | Т                       | T       | 7          |       |       | 132        |               | 十        |          |          |          | ヿ        | T         | $\neg$            | ┑        |
|               | 33       | $oxedsymbol{oxed}$                               |          |          |  |          |              |          |          |           |            |       | 83        |              | $\prod$ |                |                     |              | T                       |         |            |       |       | 133        |               |          |          |          | $\neg$   |          | 寸         | $\neg$            | $\neg$   |
|               | 34       |  |          |          | Ш  |          |              |          | $\Box$   |           |            |       | 84        | $oxed{oxed}$ |         |                |                     | $oxed{\int}$ | I                       |         | ]          |       |       | 134        |               | T        |          |          |          |          | $\Box$    | $\neg$            |          |
|               | 35       | Щ  |          | _        | $\Box$   |          |              |          | $\bot$   | ]         |            |       | 85        |              |         |                | Ш                   |              | $oldsymbol{\mathbb{I}}$ |         |            |       |       | 135        | $\Box$        | $\Box$ T |          |          |          |          |           | $\Box$            |          |
|               | 36       | Ш  |          | _        | $\Box$   | 4        | _[           | [        | _[       |           |            |       | 86        | $\perp$      | $\perp$ | <u> </u>       | П                   | $\bot$       | $\perp$                 | $\Box$  | ]          |       |       | 136        |               | $\Box$   |          |          |          |          |           |                   |          |
|               | 37       |  |          |          |  | _        | _            | _        | _        |           |            |       | 87        | _            |         | _              | Ш                   |              | <u>. </u>               | _ _     |            |       |       | 137        |               | $\Box$   |          | $\Box$   |          | $\Box$   | J         | J                 |          |
| L             | 38       | Ш  |          |          |  | $\dashv$ | _            |          | _        | _         |            |       | 88        | 4            | $\perp$ | <u> </u>       | Ш                   | _            | _                       | _ _     |            |       |       | 138        |               |          | $\prod$  | $\Box$   |          | $\Box$   |           | $\Box$            |          |
|               | 39       | Щ  | $\sqcup$ |          | $\sqcup$   | 4        | _            |          | $\dashv$ | _         |            |       | 89        | 4            | $\perp$ | 1_             | Ц                   |              | 4                       |         | ╝          |       | ]     | 139        |               | $\perp$  | $\Box$   | $\Box$   |          |          |           | $oldsymbol{\bot}$ |          |
|               | 40       | Ш  |          | _        | $\vdash \downarrow$                              | $\perp$  | $\dashv$     | _        | _        | _         |            |       | 90        |              | $\perp$ | <u> </u>       | $\sqcup \downarrow$ | _            | $\perp$                 | $\bot$  | _          |       |       | 140        |               | $\perp$  | _[       | [        |          |          |           | $\Box$            | $\Box$   |
|               | 41       | _  |          |          | $\vdash$   | $\perp$  | 4            | _        | $\dashv$ | _         |            |       | 91        | _            | _       | <u> </u>       | $\sqcup$            |              | $\perp$                 | $\perp$ | _          | 1     |       | 141        | 4             | _        | _        | _[       | $ \bot $ | $\Box$   | [         | $\bot$            |          |
|               | 42       |  |          | _        | $\vdash$   |          | 4            | 4        | -        | 4         |            |       | 92        | -            |         | $\perp$        | $\sqcup$            | $\dashv$     | $\perp$                 |         | 4          |       |       | 142        |               | _ _      | _        | _        | _        |          |           | _                 | $\Box$   |
|               | 43       | -  |          | _        | -  | -+       | 4            | _        | 4        | _         |            |       | 93        | 4-           | -       | -              | $\sqcup$            | $\perp$      | 4                       | 1       | 4          | 1     |       | 143        | _             | 4        | _        | _        | _        |          | _         | $\dashv$          | $\Box$   |
| $\rightarrow$ | 44       |  |          | -        | $\vdash$   | -+       | $\dashv$     | -        | -        | 4         |            |       | 94        | -            | 4-      | ₩              | $\vdash \vdash$     | $\dashv$     | +                       | -       | 4          | -     |       | 144        | 4             | 4        | _        | _        | _        | _        | $\perp$   | $\dashv$          | _        |
|               | 45       | _  |          |          | $\vdash$   | +        | 4            | _        | 4        | 4         |            |       | 95        | -            |         | 4_             | $\sqcup$            | $\bot$       | 4                       | 1       | 4          |       |       | 145        | $\perp$       | 4        | 4        | [        | _        | _        |           | $\dashv$          | _        |
|               | 46       |  |          | _        | $\vdash \vdash$                                  | +        | $\dashv$     | -+       | -        | _         |            |       | 96        | +            | +-      | ↓_             | $\dashv$            | 4            | 4                       | _       | 4          | ١,    |       | 146        | $\dashv$      | $\perp$  | 4        | _        | _        | _        | _         | 4                 | _        |
|               | 47       |  | $\dashv$ |          | _  | +        | -            |          | $\dashv$ | 4         | - 1        |       | 97        | +            | +       | $\vdash$       | $\vdash \downarrow$ | $\perp$      | $\perp$                 | $\perp$ | 4          | 1     |       | 147        | $\dashv$      | +        | 4        | _        | _        | _        | _         | _                 | _        |
|               | 48       |  | $\dashv$ | -        | -  | -        | $\dashv$     | $\dashv$ | _        | 4         |            |       | 98        | +            | +-      | ┼-             | $\dashv$            | +            | +                       | +       | 4          | 1     |       | 148        | 4             | +        | 4        | _        | 4        | _        | _         | 4                 | _        |
|               | 49       |  | -        | -        | -+   | -+       | $\dashv$     | $\dashv$ | -        | ႕         |            |       | 99        | +            | -       | <b>├</b>       |                     |              | +                       | 4       | 4          | 1     |       | 149        | $\perp$       | +        | 4        |          | _        | _        | $\dashv$  | 4                 | _        |
|               | 50       |  | 1        |          | oxdot  | _L       |              |          |          |           | [          |       | 100       |              |         |                | L                   |              | Д.                      | _L      | _]:        | :::L  |       | 150        |               |          |          | $\bot$   |          |          |           |                   |          |